



CERTIFICATE NUMBER

DATE

02-LD327930A/2-PDA

14 September 2009

ABS TECHNICAL OFFICE

London Engineering Department

# CERTIFICATE OF Design Assessment

This is to Certify that a representative of this Bureau did, at the request of  
**ABB OY MOTORS - VAASA**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate. It will remain valid as noted below or until the Rules or specifications used in the assessment are revised (whichever occurs first).

PRODUCT: Motor, Low Voltage

MODEL: M3JP/KP 160-400

ABS RULE: 2009 Steel Vessel Rules Section 4-8-3/3 and 1-1-4/7.7

OTHER STANDARD

AMERICAN BUREAU OF SHIPPING

Wing F. Cheung  
Engineering Type Approval Co-ordinator

**ABB OY MOTORS**

P.O. BOX 633  
VAASA  
FIN-65101  
Finland  
Telephone: +358 10 22 11  
Fax: +358 10 22 47372

**MA Certificate No.** 08-TU1078235-X

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**Product:** Motor, Low Voltage

**Model:** M3JP/KP 160-400

**Intended Service:**

Marine and Hazardous Environments

**Description:**

Cast iron framed, three phase flameproof induction motors in frame sizes 160 to 400.

**Ratings:**

220-690 Volts, 50/60Hz, 2-12 and multiple poles, IP55 and IP65,  
Duty Type; S1 - S9, S2-30 Min P<1.4 x PN S1, S6 -40% P <1.5 x PN S1,  
Temperature rating: between -25 C and +50 C;  
Insulation Class F and Temperature rise Class B,

II 2 G EEx d T1-T6,

II 2 G EEx de T1-T6,

II 2 D T1-T6 IP65 (EN 60529),

The following certificates apply: LCIE 00 ATEX 6023, LCIE 00 ATEX 6028, LCIE 00 ATEX 6027, LCIE 00 ATEX 6029, LCIE 00 ATEX 6030, LCIE 01 ATEX 6078, LCIE 00 ATEX 6079, LCIE 03 ATEX 6060, LCIE 04 ATEX 6087.

**Service Restrictions:**

Unit certification is required for motors intended for essential services.

**Comments:**

Each particular installation of electric motors is to be specifically approved.

**Notes / Drawings / Documentation:**

This Product Design Assessment (PDA) is valid only for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

**Term of Validity:**

This product/model is covered under Product Design Assessment (PDA) Certificate # 02-LD327930A/2-PDA, dated 14/Sep/2009. This PDA Certificate expires 13/Sep/2014. It will remain valid for 5 years from date of issue or until the Rules or specifications used in the assessment are revised (whichever occurs first). It is valid for all vessels contracted on or before the date of the Rules used in this evaluation.

**STANDARDS****ABS Rules:**

2009 Steel Vessel Rules Section 4-8-3/3 and 1-1-4/7.7

**National:**

NA

**International:**

NA

**Government Authority:**

NA

**EUMED:**

Wfz

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NA

**Others:**

NA



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